

Melting of steel and alloys in vacuum furnaces

S/133/63/000/004/002/011  
A054/A126

of the reduction of the alloys on their ductility in forging was also studied. The forging properties were improved by adding a nickel-magnesium masteralloy and calcium silicate to the bath prior to tapping, calculating 0.12 - 0.15% magnesium for the finished metal. Wires with a 30  $\mu$  thickness could be drawn from the metal produced under the modified conditions. There are 4 figures.

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04902-01 LWP(t)/BTI/LWP(k) IJP(c) JD

ACC NR: AP6031224 (A) SOURCE CODE: UR/0133/66/000/009/0837/0841

AUTHOR: Gol'dshteyn, Ya. Ye. (Candidate of technical sciences); Bakhovskaya, M. V. (Engineer); Kapel'nitskiy, V. G. (Engineer); Keys, N. V. (Engineer)

ORG: Chelyabinsk Institute of Metallurgy (Chelyabinskiy n.-i. institut metallurgii); (Chelyabinsk Metallurgical Plant (Chelyabinskiy metallurgicheskiy zavod))

TITLE: Structure and properties of variously melted structural steel / 8

SOURCE: Stal', no. 9, 1966, 837-841

TOPIC TAGS: *steel structure, metal property, vacuum melting, induction melting,* structural steel, structural steel melting, structural steel property, electroslog melting, vacuum arc melting, vacuum induction melting/18Kh2N4VA structural steel, 40KhNMA structural steel, 35Kh2GSMA structural steel

ABSTRACT: A comparative study has been conducted of the structure and properties of 18Kh2N4VA (A), 40KhNMA (B), and 35Kh2GSMA (C) structural steels melted by the following processes (weight of ingots in kg is shown in brackets): electroslog [500 and 1000], vacuum arc [800], vacuum induction [500], electroslog + vacuum arc [450], and vacuum induction + vacuum arc [450]. It was found that although none of the melting processes used affected significantly the strength of steels, all of them more or less improved the notch toughness at room temperature, reduced the susceptibility to temper brittleness (see Fig. 1), and lowered the temperature of transition to brittle behavior. For instance, the latter temperature of A, B and C steels melted by one of the combined processes dropped from 30—35, 90 and 30C (conventional

Card 1/3 UDC: 669.15-194

ACC NR: AP6031224

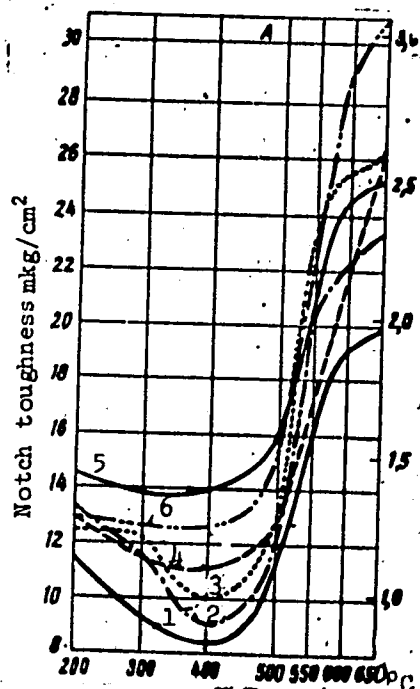


Fig. 1. Notch toughness of 18Kh2N4VA steel versus tempering temperature

1 - Conventional arc; 2 - electroslag; 3 - electroslag + vacuum arc; 4 - vacuum arc; 5 - vacuum induction; 6 - vacuum induction + vacuum arc.

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L 04982-67

ACC NR: AP6031224

arc melting) to 70—75, 115—120 and 60—70C, respectively. The combined melting processes also reduce the anisotropy of mechanical properties. However, the degree of effect depends on the final heat treatment and the carbon content of the steels. Orig. art. has: 6 figures and 2 tables. [TD]

SUB CODE: 11, 13/ SUBM DATE: none

Electroslag melting

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L 35031-65 EWT(m)/EWT(b)/EWT(t) JD

18c  
8/0286/65/000/005/0034/0034 35

ACCESSION-NR: AP5008155

AUTHOR: Paton, B. Ya.; Dudko, D. A.; Medovar, B. I.; Latash, Yu. V.; Maksimovich, B. I.; Shevchenko, A. I.; Stupak, L. M.; Goncharenko, V. P.; Grigor'yev, L. F.; Petukhov, G. K.; Chudin, N. I.; Lubenets, I. A.; Yartsev, M. A.; Keys, N. V.; Tulin, N. A.; Kanel'nitskiy, V. G.; Privalov, N. T.; Pis'mennov, V. S.; Kholodov, Yu. A.; Ryabov, S. M.; Pastukov, N. I.; Donets, I. D.; Silayev, A. Ya.

TITLE: Method of electroslag casting of ingots. Class 18, No. 168743

SOURCE: Dyulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 34

TOPIC TAGS: ingot casting, ingot electroslag casting, electroslag melting, steel melting, alloy melting, metal melting

ABSTRACT: This Author Certificate introduces a method of electroslag casting of ingots in an open or protective atmosphere or in vacuum, in which slag is first melted in a mold with a nonconsumable or consumable electrode arc or plasma jet. To improve the metal quality and the ingot surface and to raise the yield, the molten metal or, if needed, the slag is poured into the mold through a hollow consumable or nonconsumable electrode (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [ND]

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L 35031-65

ACCESSION NR: AP0006155

ASSOCIATION: Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant)

SUBMITTED: 06Feb63

ENCL: 01

SUB CODE: NM, IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3215

Card 2/3

KOROL'OV, M.A.; VETYUKOV, M.M.; VEDERNIKOV, G.F.; SHMEL'KOVA, N.B.;  
KAPEL'NITSKIY, Yu.G.

Degree of coke calcination for the preparation of an anode  
paste. TSvet. met. 38 no. 12:58-62 D '65 (MIRA 19:1)

ADRIANOVA, V.P.; ANDREYEV, T.V.; ARANOVICH, M.S.; BARSKIY, B.S.; GROMOV, M.P.;  
GUREVICH, B.Ye.; DVORIN, S.S.; YERMOLAYEV, N.F.; ZVOLINSKIY, I.S.;  
KABLUKOVSKIY, A.F.; KABELONICH, A.P.; KASHCHENKO, D.S.; KLIMOVITSKIY,  
M.D.; KOLOSOV, M.I.; KOROLEV, A.A.; KOCHINEV, Ye.V.; LESKOV, A.V.;  
LIVSHITS, M.A.; MATYUSHINA, N.V.; MOROZOV, A.N.; POLUKAROV, D.I.;  
RAVDEN', P.G.; ROKOTYAN, Ye.S.; SMOLYARENKO, D.A.; SOKOLOV, A.N.;  
USHKIN, I.N.; SHAPIRO, B.S.; SPSTREYN, Z.D.; AVHUTSKAYA, R.F., red.  
isd-va; KARASEV, A.I., tekhn.red.

[Brief handbook on metallurgy, 1960] Kratkii spravochnik metallur-  
ga, 1960. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po chernoi i  
tvetnoi metallurgii, 1960. 369 p. (MIRA 13:7)  
(Metallurgy)



KAPELOVICH, B.E., inzh.

Problem concerning the design of a turbine stage from the terminal end. Izv. vys. ucheb. zav.; energ. 5 no.1:125-127 Ja '62. (MIRA 15:2)

1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina.  
Predstavlena kafedroy teplovykh dvigateley.  
(Turbines)

KAPEL'SON, L.M., inzh.

Testing of conical ShK 380/550 mills in the anthracite culm grinding  
operation. Elek. sta. 34 no.9:61-65 S '63. (MIRA 16:10)

KAPEL'SON, L.M., inzh.

Separate and combined combustion of poor coal and casing-  
head gas in the furnace of a once-through boiler. Teploenergetika  
7 no.2:47-50 F '60. (MIRA 13:5)

1. Gosudarstvennyy tret po organizatsii i ratsionalizatsii  
elektrostantsiy.  
(Combustion) (Furnaces)

KAPEL'SON, L.M., inzh.; KARPOV, B.S., inzh.

Study of the operation of a conical ball mill grinding anthracite  
culm. Teploenergetika 9 no.12:9-13 D '62. (MIRA 16:1)

1. Gosudarstvennyy trest po organizatsii i ratsionalizatsii  
rayonnykh elektrostantsiy i setey.  
(Milling machinery) (Coal, Pulverized)

KAPEL'SON, L.M., inzh.; KUZNETSOV, N.I., inzh.; DMITRIYEV, S.Ye., inzh.;  
ZAYDENTREGER, V.L., inzh.

Results of balance tests of the TP-230-6 boiler with vertical  
preliminary furnaces operating on anthracite culm.  
Energomashinostroenie 10 no.7:16-19 J1 '64. (MIRA 17:9)

KAPEL'SON, L.M., inzh., red.

[Experience in operating boiler equipment with steam parameters of 140-155 atm. and 570° C.] Opyt osvoeniia kotel'nogo oborudovaniia na parametry para 140-155 am i 570° C. Moskva, Energiia, 1964. 135 p. (MIRA 18:2)

1. ORGRES, trust, Moscow.

KAPELUSH, S.I.

The deepest karst cave in the Alps. Priroda 46 no.2:100 P '57.  
(MIRA 10:3)

1. TSentral'naya stantsiya yunykhn naturalistov, Moskva.  
(Karst) (Alps--Caves)

DRUZHININ, Vladimir Nikolaysvich; KOVALEVSKIY, V.S., red.; KAPELUSH, S.I., red.; SHAPOVALOVA, N.S., mladshiy red.; VILETSKAYA, E.N., tekhn. red.

[Typhoon is in sight]V nashem kvadrate taifun. Moskva,  
Geografiz, 1962. 220 p. (MIRA 15:8)  
(Voyages and travels)



AKIMUSHKIN, Igor' Ivanovich; KAPELUSH, S.I., red.; SHAPOVALOVA,  
N.S., mlad. red.

[Where to? And how?] Kuda? I kak? Moskva, Mysl', 1965.  
262 p. (MIRA 18:6)

KAPELYUSH, V.V. .

Moisture loss of potatoes in the Ukrainian S.S.R. Trudy OGMI  
no.25:49-53 '61. (MIRA 16:6)  
(Ukraine--Potatoes--Water requirements)

26991

S/182/61/000/010/003/004  
D038/D113

1.1310

AUTHORS: Grigorov, G.Ya., Basseyn, V.V. and Kapelyuk, K.A.

TITLE: Mechanization of stamping-forging operations at the  
Chelyabinsk Tractor Plant

PERIODICAL: Kuznechno-shtampovocchnoye proizvodstvo, no. 10, 1961, 33-41

TEXT: The article describes the technological methods of stamping the caterpillar links of an C-100 (S-100) tractor at a mechanized section of the forge shop of the Chelyabinskiy traktorny zavod (Chelyabinsk Tractor Plant). The 100x100x200 mm blanks are loaded into a box equipped with sliding bottom and a hinged wall, and moved by a pusher into a holding furnace. From the furnace the blanks are fed into a hammer head of a 1600-ton capacity crank press by a mechanism comprising a chain transporter and pneumatic tongs, and then stamped in a single pass die by 4-6 blows. The stamped forgings are trimmed in a press and the forgings and burrs are removed by an automatic lifter fixed to the press table. The use of 9 of these lifters replaced the work of 18 employees. A loading suspended

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Mechanization of ....

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D038/D113

conveyer sorts out the right and left side caterpillar links and the burrs as they come out of the presses. The burrs are fed into RR trucks, and the caterpillar links sent on to a delivery section for checking and, when necessary, dressing in emery grinding machines. Finally, the stamped caterpillar links are gradually loaded by transporters into packages placed on trolleys moving on rails. There are 9 diagrams describing the respective steps of each operation. There are 10 figures. ✓

Card 2/2

1. IVANOV, N. ; KAPELYUSH, S.
2. USSR (600)
4. Financial Statements
7. Some problems in compiling the final balance sheets on the basic work of industrial enterprises to Jan. 1, 1953. Bukhg. uchet 11 no. 12 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KUPRIYANOV, A.; KAPLYUSH, S., redaktor; FILIPPOVA, E., redaktor; DENISOVA, O.,  
tekhnicheskiiy redaktor

[Income tax from consumer cooperatives] Podokhodnyi nalog s organi-  
zatsii potrebitel'skoi kooperatsii. 2-e ispr. i dop. izd. Moskva,  
Gosfinisdat, 1955. 117 p. (MIRA 9:3)  
(Income tax) (Russia--Cooperative societies)

IVANOV, Nikolay Nikolayevich; KAPELYUSH, S., red.; LEBEDEV, A.,  
tekhn.red.

[Production accounting and calculation of industrial production  
costs] Uchet proizvodstva i kal'kulirovanie sebestoimosti  
promyshlennoi produktaii. Moskva, Gosfinizdat, 1959. 181 p.  
(MIRA 13:2)

(Costs, Industrial)

KAPELYUSH, S., kand. ekonom. nauk; KASHAYEV, A., kand. ekonom. nauk

Basic principles of accounting for the production and for its  
use. Obshchestv. pit. no.12:49-53 D '62.

(MIRA 16:1)

(Restaurants, lunchrooms, etc.—Accounting)



KAPELYUSH, S., kand. ekonom. nauk; KASHAYEV, A., kand. ekonom. nauk

Calculating and accounting in the production of intermediate  
meat products in food processing enterprises. Obshchestv. pit.  
no.7:5-10 J1 '62. (MIRA 15:10)

(Meat industry--Accounting)

FECHI, Marton [pecsi, Marton]; SARFALVI, Bela[Sarfalvi, Bela];  
KAPELUSH, S.I., red.; ZABIROV, B.Sh., red.; SHAPOVALOVA, N.S.,  
mladshiy red.; KISELEVA, Z.A., red. kart.; BURLAKA, N.P.,  
tekhn. red.

[Hungary; studies on physical and economic geography]Vengriia;  
oчерki fizicheskoi i ekonomicheskoi geografii. Moskva, Geog-  
rafgiz, 1962. 315 p. (MIRA 15:9)  
(Hungary---Geography)

TYURINA, Larisa Gavrilovna, zhur.; KAPELUSH, S.I., red.

[At the foot of the Acropolis] U podnozhia Akropolia.  
Moskva, Mysl', 1965. 79 p. (MIRA 18:10)

L 3908-66 EWT(m)/EWP(t)/EWP(k)/EWP(b) JD

ACCESSION NR: AP5022944

UR/0201/65/000/002/0065/0071

AUTHOR: Afanas'yev, N. V.; Kapel'yan, S. N. <sup>55</sup> <sub>55</sub>

TITLE: Effect of static pressure on the magnitude of electrical erosion of metal in a condensed spark discharge <sub>4,55</sub>

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 2, 1965, 65-71

TOPIC TAGS: erosion, electric discharge, metal property

ABSTRACT: An earlier investigation (N. V. Afanas'yev, Z. F. Vorobey, Ye. P. Kuznetsova, DAN BSSR, no. 2, 1964) indicated that the electrical erosion of certain metals during spark discharges in hermetically sealed liquid containers is considerably larger than in open discharge chambers. To check various hypotheses attributing these erosion variations to pressure pulses affecting the molten metal, the present author constructed a device for the production, within the discharge region, of high pressure pulses (not less than 2000 atm) exceeding those produced naturally during the discharge process. In addition, the static pressure could be varied within the 1 — 250 atm limits by means of a hydraulic press. Results are summarized in Table 1 of the Enclosure. The article also presents data (obtained from oscillograms) about the discharge current, applied voltage, energy and instantaneous power of the discharge as a function of the discharge duration (in  $\mu$ sec), data (from high-speed motion pictures) concerning the evaporated gas bubble radii, bubble surface velocity, Card 1/3

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ACCESSION NR: AP5022944

and bubble pressure, and photographs of the eroded electrodes. A comprehensive discussion of the results and an explanation of the observed events are given. Orig. art. has: 4 formulas, 4 figures, and 3 tables.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: MM, EM, ME

NO REF SOV: 006

OTHER: 000

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L 3908-66

ACCESSION NR: AP5022944

ENCLOSURE: 01

Table 1. Magnitude of the total electrical erosion of electrodes during various discharge conditions (per one discharge pulse)

Electrode material	In air		In transformer		In transformer oil at different static pressures applied, $\Delta w_p$ at					
	$\Delta w_a$	$\Delta w_{a,c}$	$\Delta w_o$	$\Delta w_{o,c}$	P, atm					
					70	80	100	150	200	250
Ni	0.7	1.4	10.70	10.00	12.3	14.0	17.2	11.6	0.6	7.50
Cu	1.05	2.2	9.16	11.32	12.4	13.2	13.4	10.2	7.9	6.60
Al	3.20	6.7	4.55	7.23	10.2	10.1	8.7	7.5	6.4	5.23
Zn	33.1	56.8	31.50	35.00	40.0	37.0	35.0	34.0	28.0	25.00
Sn	96.1	72.7	56.50	77.20	73.0	60.0	65.0	60.0	32.0	42.00

Tests carried out with  $C=100 \text{ } \mu\text{F}$ ,  $U = 1 \text{ kV}$   $\Delta w_a$ ,  $\Delta w_{a,c}$ ,  $\Delta w_o$ ,  $\Delta w_{o,c}$ , and  $\Delta w_p$  are corrosion losses in atmospheric air, air in airtight chamber at normal pressure, oil in open container, oil in completely airtight container under normal pressure, and oil in airtight container at pressure p, respectively.

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L 01498-66 EWT(m)/EWP(1)/T/EWP(t)/EWP(b) JD

ACCESSION NR: AP5014741

UR/0201/65/000/001/0086/0092

AUTHORS: Afanas'yew, M. V.; Lyakhovich, L. S.; Kapel'yan, S. N.;  
Varashnin, L. R. 44,55 44,55 44,55 338

TITLE: Influence of pulsed pressures and temperatures on the diffusion process and mechanical characteristics of the hardened layer in the case of a spark discharge

SOURCE: AN BSSR. Izvestiya. Seriya fiziko-tekhnicheskikh nauk, no. 1, 1965, 86-92

TOPIC TAGS: spark discharge, surface hardening, pressure effect, temperature effect, surface diffusion 44,55, 16

ABSTRACT: The article presents the results of a study of the influence of the interelectrode medium and of pulsed pressures on diffusion processes and on the change in the microhardness of a hardened surface layer in the case of a condensed spark discharge.

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L 01498-66

ACCESSION NR: AP5014741

The investigations were carried out in air, water, and supersaturated water solution of borax. The pulse pressure was produced by the discharge itself, initiated between iron electrodes (one in the form of a point and the other in the form of a plane) situated in a sealed chamber filled with liquid. The discharge was produced at 2000 volts by a 2000  $\mu$ F capacitor bank. The microhardness data were processed statistically. The results showed appreciable differences between the pressure indentations of the hardness measuring machine differ. The high-pressure chamber was described elsewhere (DAN BSSR, no. 2, 1964). The microhardness in air was practically doubled to 200 kg/mm<sup>2</sup>. In the case of a discharge in water with open surface, further increase in microhardness is observed, to 275 kg/mm<sup>2</sup> for the cathode and 460 kg/mm<sup>2</sup> for the anode. For a discharge in water contained in the sealed chamber, the microhardness increased to 300 kg/mm<sup>2</sup>. In the borax solution, the corresponding microhardnesses were 340--400 kg/mm<sup>2</sup> for the open surface, and 500 and 700 kg/mm<sup>2</sup> for the cathode and anode, respectively, in the

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ACCESSION NR: AP5014741

27 6 2  
sealed chamber. The thickness of the borated layer was 100--150  $\mu$  for the open surface of borax solution, and 150--200  $\mu$  in the case of the closed chamber. The time during which the metal was in the molten state was estimated from the reaction diffusion formulas to be 530  $\mu$ sec. The results obtained are discussed from the point of view of the pulsed pressures, cooling conditions, and alloying. Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NR REF SOV: 007

OTHER: 003

Card 3/3 *SP*

BAKANOV, M.I., doktor ekonom. nauk, prof.; KAPELYUSH, S.M., kand. ekonom. nauk, dotsent; KASHAYEV, A.N., kand. ekonom. nauk, dotsent; GOFMAN, G.A., kand. ekonom. nauk; TATSIY, G.M., kand. ekonom. nauk, dotsent; KAPLAN, A.I., kand. ekonom. nauk, dotsent; STARCHAKOVA, I.I., red.; TERYUSHIN, M.I., tekhn. red.

[Accounting principles in commerce] Osnovy bukhgalterskogo ucheta v trgovle. Moskva, Gos. izd-vo targ. lit-ry, 1961. 376 p.

(MIRA 14:10)

1. Kafedra ucheta i statistiki Zaochnogo instituta sovetskoy trgovli (for Bakanov, Kapelyush, Kashayev, Gofman, Tatsiy, Kaplan).  
(Russia—Commerce—Accounting)

KAPELYUSH, V.V.

Course of the development of potatoes in the Ukrainian S.S.R.  
Trudy OGMI no.22:59-65 '60. (MIRA 14:10)  
(Ukraine--Potatoes) (Phenology)

KAPELYUSH, V.V.

Agroclimatic conditions of the germination of potatoes in  
the Ukraine. Mat. Fen. kom. Geog. ob-va SSSR no.1:40-50  
'62. (MIRA 17:3)

KAPELTUSHNIK, N. L.

"The Use of Placental Tissue in the Treatment of Vesicovaginal Fistulas."  
Cand Med Sci, Kazan' State Medical Inst, Kazan', 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (14)

SIDOROV, N.Ye., professor; KAPELYUSHNIK, N.L., kandidat meditsinskikh nauk

Placental transplantation in the treatment of vesicogenital fistulas  
in women. Akush. i gin. 32 no.4:51-58 J1-Ag '56. (MIRA 9:11)

1. Iz akushersko-ginekologicheskoy kliniki (dir. - prof. N.Ye. Sidorov)  
i kafedry patologicheskoy anatomii (dir. - dotsent N.A.Ibragina)  
Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey  
imeni V.I.Lenina.

(BLADDER, fistula

vesicogenital, surg., placental transpl. in women)

(GENITALIA, FEMALE, fistula

same)

(PLACENTA, transpl.

in surg. correction of vesicogenital fistula in women)

SIDOROV, N.Ye., prof.; KAPELYUSHNIK, N.L., assistant

Combined treatment of cancer of the female genitalia. Kaz.  
med. zhur. no.2:56-58 Mr-Apr '62. (MIRA 15:6)

1. I kafedra akusherstva i ginekologii (zav. - prof.  
N.Ye. Sidorov) Kazanskogo. Gosudarstvennogo instituta  
dlya usovershenstvovaniya vrachey imeni V.I. Lenina.  
(GENERATIVE ORGANS, FEMALE—CANCER)

KAPFLYUSHNIKOV, G.I., insh.

Using semiconductors in coal mining. Bezop.truda v prom. 2 no.4:29

Ap '58.

(MIRA 11:4)

(Semiconductors) (Coal mines and mining--Equipment and supplies)



KAPELYUSHNIKOV, G.I., inzh.

Urgent tasks of underground transportation workers. Besop.truda  
v prom. 3 no.3:3-5 Mr '59. (MIRA 12:4)  
(Mine railroads)

KAPELYUSHNIKOV, G.I., insh.; KLITSUNOV, V.I., insh.

Injuries caused by electric current and measures for their  
prevention. Besop.truda v prom. 3 no.5:4-7 My '59.  
(MIRA 12:8)

(Electricity in mining- Safety measures)

VORONKOV, A.K., insh.; KAFELYUSHNIKOV, G.I., insh.

Improve the training of machinery operators for the coal  
mining industry. Besep.truda v prom. 3 no.12:4-6  
D '59. (MIRA 13:4)

(Coal mining machinery)

KAPELYUSHNIKOV, German Isacovich; KLITSUNOV, Viktor Ignat'yevich;  
MIRSKAYA, V.V., red.isd-vs; SHKLYAR, S.Ya., tekhn.red.;  
BOLDYREVA, Z.A., tekhn.red.

[Safety in the use of electricity in mining] Bezopasnoe primeneniye elektricheskoi energii v shakhte. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu, 1960. 50 p.

(MIRA 14:2)

(Electricity in mining--Safety measures)

KAPELYUSHNIKOV, G.I., inzh.; KLITSUNOV, V.I.

Measures for preventing underground fires caused by electricity.  
Besop.truda. v prom. 4 no.6:4-6 Je '60. (MIRA 14:3)  
(Electricity in mining—Safety measures)

KAPELYUSHNIKOV, G.I., inzh.

Electric detonation from an a. o. network. Bezop.truda v prom. 5  
no.3:21-22 Mr '61. (MIRA 14:3)  
(Detonators)

KAPELYUSHNIKOV, German Isaakovich; KLITSUNOV, Viktor Igant'yevich;  
MANEVICH, Veniamin Fayvovich; PANKRATOV, Yu.A., inzh., retsen-  
zent; ZASADYCH, B.I., retsenzent; FEDOTOV, A.N., otv. red.;  
OKHRIMENKO, V.A., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Safety measures in underground coal mining] Tekhnika bezo-  
pasnosti pri podzemnoi dobyche uгля. Moskva, Gos. nauchno-  
tekhn. izd-vo lit-ry po gornomu delu, 1962. 503 p.

(MIRA 15:4)

(Coal mines and mining--Safety measures)  
(Coal miners--Diseases and hygiene)

KAPELYUSHNIKOV, G.I., inzh.

Eliminate structural shortcomings of electric equipment in mines.  
Bezop.truda v prom. 7 no.2:2-4 P '63. (MIRA 16:2)

1. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo po ugol'noy  
promyshlennosti RSFSR.  
(Electricity in mining)



KAPELYUSHNIKOV, G.I., inzh.

Supply mines with devices for mine atmosphere control. Bezop.truda  
v prom. 7 no.7:38 J1 '63. (MIRA 16:9)  
(Eudiometers)

POLESIN, Ya.L., otv. red.; SKURAT, V.K., otv. red.; KAPELYUSHNIKOV,  
G.I., otv. red.; MOISEYEV, S.L., otv. red.; RATNIKOVA, A.P.,  
red.izd-va; BOLDYREVA, Z.A., tekhn. red.

[Safety measures in coal and shale mines; current regulations  
in effect applicable to mines in operation, construction, and  
reorganization] Pravila bezopasnosti v ugol'nykh i slantse-  
vykh shakhtakh; nastoiashchie pravila rasprostraniatsia na  
shakhty, nakhodiashchiesia v ekspluatatsii, stroitel'stve i  
rekonstruktsii. Moskva, Izd-vo "Nedra," 1964. 325 p.  
[Collection of instructions....] Sbornik instruktsii k....  
1964. 262 p. (MIRA 17:4)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nad-  
zoru za bezopasnym vedeniyem rabot v promyshlennosti i gorno-  
mu nadzoru.

KAPELYUSHNIKOV, G.I., inzh.

Causes of electrical accidents in coal mines. Bezop. truda  
v prcm. 8 no.9x7-10 S '64 (MIRA 18:1)

18

SOV/127-59-4-12/27

AUTHORS: Denisov, N.M., Zaretskiy, L.I., Kapelyushnikov,  
L.Ye., Redekap, A.V., Sevost'yanov, I.M. and  
Tereshchenko, N.A.

TITLE: A Portal Timber Stacker. (Portal'nyy krepuklad-  
chik)

PERIODICAL: Gornyy zhurnal, 1959, Nr 4, p 56 (USSR)

ABSTRACT: This is a description of a portal timber stacker  
- author's certificate Nr 109261, class 5s, 10<sub>01</sub>.  
There are 3 diagrams.

Card 1/1

22

The performance and the problems of petroleum cracking. M. Kapolyushnikov. *Azerbaidzhanish Neftyanoe Khimicheskoye Przem.*, No. 8-7, 1960.—In a vapor-phase cracking unit of 70-80 tons' daily capacity a gas oil b. p. 180-350° was cracked at 570-585° with a yield of 80-85% (by wt.) of a pressure distillate of 0.780-0.800 sp. gr., 25% over at 100°, 88-90% at 300° and an end point of 280-285°. The condensate had a sp. gr. of 0.880-0.900, initial b. p. 215-230°, and 18.18% of a gas of 1.1 sp. gr. were obtained. The latter was composed of: H<sub>2</sub> 6.6, air 2.680, methane 37.59, ethylene 9.53, ethane 15.68, propylene 11.58, propane 13.01, butylene 7.22, butane 3.54 and higher homologs 3.36%. The refined aviation gasoline had an octane no. of 88-90. The reforming was carried out with liquid-phase cracked pressure distillate, vapor-phase cracked distillate from the above unit, and straight-run naphtha. The pressure distillate so obtained was quite similar to that of the vapor-phase cracked pressure distillate on operating the unit at 600-605° and passing 100-110 tons of stock in 24 hrs.  
A. A. Rechkting

The performance of the plant "Sovetskii Kroking" and the problems encountered there. M. A. Kapelyushnikov. *Trans. Int. All-Union Meeting All-Union Sci.-Eng. Tech. Soc. Petroleum Workers, Baku, 1953, Gosud. Nauch. Tekh. Gorn.-Gos. Nefi. Indst. 1954, No. 3, 54 pp; cf. C. A. 28, 7499.*—In the Shukhov-Kapelyushnikov vapor-phase cracking unit the stock (gas oil or crude oil) is pumped from storage into a reservoir where it is mixed with the condensate from the bubble tower. The mixt. is passed at 60° under a pressure of 180-200 lb. first through 2 banks of convection tubes countercurrently to the flue gases, then through 2 banks of roof tubes and finally through the soaking section. The cracked product from the soaking section heated to 560-575° is injected into the evaporator entering it 0.5 m. from the bottom. The stock is preheated to 200° through a heat exchanger placed between the vapor line from the evaporator to the bubble tower, and is then admitted into the line connecting the tube still with the evaporator; this lowers the temp. of the cracked product to 200°. This procedure maintains a steady temp. in the evaporator, as well as a sepn. of the heavier fractions of 0.905-0.975 sp. gr. The vapors from the evaporator enter the distn.

chamber placed on top of the evaporator and pass through the cracking-stock heat-exchanger and into a bubble tower. The condensate from this bubble tower is recycled, while the gasoline and gas after passing a partial condenser in the upper part of the bubble tower and one outside, enter the condenser. The gas passes through an absorber (gas oil). This unit (110 tons daily throughput) yielded 51% gasoline distillate, 27% cracked residue and 22% gas and losses. The gasoline had a sp. gr. of 0.706 and initial b. p. 48°; 11% distil. below 100°, 70% below 180° and 84% below 200°, with a final b. p. of 210°. The gas had a sp. gr. of 1.1 0.0; it contained air 2.634%, C<sub>2</sub>H<sub>4</sub> 27.50%, C<sub>2</sub>H<sub>6</sub> 9.821%, C<sub>3</sub>H<sub>8</sub> 13.35%, C<sub>4</sub>H<sub>10</sub> 11.53%, C<sub>4</sub>H<sub>6</sub> 13.01%, C<sub>5</sub>H<sub>12</sub> 7.21%, C<sub>5</sub>H<sub>8</sub> 2.64% and higher hydrocarbons 3.39%. The recycling stock had a sp. gr. of 0.8430, initial b. p. 200° 2% over at 220°, 10% over at 240°, 32% at 260°, 58% at 280°, 76% at 300°, 86% at 320° and 92% at 340°, with an end point of 351°. The operation of the unit with kerosene distillate at various temps. is described. Complete details pertaining to the measurements of various pieces of app., as well as tables, permitting changes in operating conditions for the purpose of varying the yields and the properties of the final and intermediate products are presented. A. A. Rohtling

LIT. AND ENG. SUBJECTS		PROCESSES AND PROPERTIES MESS		MID. AND 1TH CATEGORIES	
<p>CA</p> <p>Modern methods for transforming petroleum gases into high-octane fuel. M. A. Kapelyushnikov, M. M. Gerasimov and V. K. Oshakov. <i>Dokl. Akad. Nauk S. S. R.</i> Class. sci. tech. 1960, No. 8, 35-45. - C<sub>1</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, or their mixts. with small amts. of C<sub>4</sub>H<sub>10</sub> were decompd. at 700-815° at reduced pressures. The gas obtained (consisting mainly of C<sub>2</sub>H<sub>4</sub>) and isobutane were passed into the rectification column from which the mixt. was pumped at 402-515° and 316 atm. into another heater where thermal alkylation took place. The alkylate was rectified, producing a fuel with an octane no. above 100. The gases from the Gromyl, Ishimbayev, Buguruslan and Malkop fields contain considerable amts. of isobutane (11.5-13.7%) and isopentane. Five references.</p> <p>W. R. Henn</p>					
<p>ASB-55A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>FROM SYMBOLS</p> <p>FROM SYMBOLS</p>					
<p>100000 117 000 000</p> <p>100000 117 000 000</p>					

KAFELYUSHNIKOV, M. A., ZHUZE, T. P. and ZAKS, G.I.

"The physical state of crude oil, gas, and water in a petroliferous horizon", Izv. AN  
SSSR [Bulletin of the Academy of Sciences, USSR], ser. OTN [Series of the Section  
of Tech. Sciences], No 11, 1942.



CA

Science and technology /  
M. A. Koudapal, Veng.  
13, No. 1, 25-10-1981. - Rev. 1.  
Petroleum technology in U.S.S.R.

petroleum industry.  
and, Nash S. S. S. R.  
the history of pe-  
G. M. Koudapal

ASB-15A METALLURGICAL LITERATURE CLASSIFICATION

1000 100100

The image shows a microfiche card containing a document page. The card has a grid of circular frames along its edges. The central frame contains a document page with the following content:

*ca*

*20*

The film formed by the method of the Institute of General and Inorganic Chemistry, and the automatic "healing" of fractures in N. M. A. Kapolyushnikov. Zashchita i obrabotka metallov. No. 1. Moscow, 1944. 8 p. 2 cm. Perforation with a hole. contg. 20 g. FeCl<sub>3</sub>, 6H<sub>2</sub>O and 20 g. FeSO<sub>4</sub>. 7H<sub>2</sub>O per l. leads to satisfactory healing of damaged waterproofing film. G. M. Kozlovskii

ASS-ILA METALLURGICAL LITERATURE CLASSIFICATION

COLLECTIONS

EXAMINATION

APPROVED FOR RELEASE: 06/13/2000		CIA-RDP86-00513R000520420015-2	
<p>1474. SCIENCE AND TECHNOLOGY IN THE OIL INDUSTRY.          Kapelyushnikov M A (Society for Cultural Relations          with the U.S.S.R., 98, Gower Street, W.C.1: J. Inst.          Petrol. 1945, 31, 51A.</p>			
A 68-11A METALLURGICAL LITERATURE CLASSIFICATION		FROM SOURCE	
LADDER #2		COLLECT ONE ONLY 101	



KAPELYUSHNIKOV, M.A.; CHIRNEVSKIY, N.P.; AGROSKINA, A.A.

~~SECRET~~  
The production of aromatic compounds in coke ovens. Stal' 7 no.1:  
77 '47. (MIRA 9:1)  
(Coke ovens) (Aromatic compounds)

KAPELYUSHNIKOV, M. A.

33148

K Voprosu O Potere Moshchnosti Pri Glu. Bokom Vrashchatel'nom Burenii. Trudy In-Ta  
Nefti (Akad. Nauk Ssr) T. I, Vyp. 1, 1949, c. 68-72

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

PA 244762

USSR/Engineering - Petroleum Deposits, Nov 52  
Physical Processes

"Physical State of Petroleum, Gas and Water Under Conditions of a Petroleum Bed," M. A. Kapelyushnikov, Corr Mem, Acad Sci USSR, T. P. Zhuze, S. I. Zaks

"Is Ak Nauk SSSR Otdel Tekh Nauk" No 11, pp 1700-1710

Experimentally studies physical state of petroleum, gas and water under conditions of high pressures and comparatively low temps, and effect of petroleum-bearing rocks on this state, corroborating possibility of occurrence of petroleum and water in

244762

single-phase gaseous state. Discusses process of formation of bitumens in petroleum deposits.

244762

**KAPELYUSHNIKOV, M.A.; ZHUZE, T.P.; USHAKOVA, G.S.**

**Investigation of the oil-gas system under increased pressures.  
Trudy Inst. nefti 3:231-239 '54. (MLRA 8:6)**

- 1. Chlen-korrespondent ANSSSR (for Kapelyushnikov)  
(Petroleum)**



Subject : USSR/Mining AID P - 839  
Card 1/1 Pub. 78 - 24/26  
Author : Kapelyushnikov, M. (Corr.-Memb., Academy of Sciences, USSR)  
Title : Letter to Editor and to the Publishing House Gostekhizdat  
Periodical : Neft. khoz., v. 32, #9, 95, S 1954  
Abstract : The author comments on corrections of the book Black Gold  
by D. A. Katarenko.  
Institution: None  
Submitted : No date

USSR/Geology - Petroleum

Card 1/1 Pub. 22 - 50/63

Authors : Kapelyushnikov, M.A., Memb. Corresp. of Acad. of Sc. USSR

Title : ~~USSR/Geology - Petroleum~~  
Migration and accumulation of dispersed petroleum in sedimentary rocks

Periodical : Dok. AN SSSR 99/6, 1077-1078, Dec 21, 1954

Abstract : Numerous investigations showed that a petroleum stratum contains greater amounts of dispersed, pellicular, capillary-retained and other types of petroleum the mechanism of extraction and accumulation of which is of great scientific and practical importance. Above mentioned types of petroleum can be extracted from the ground by their preliminary conversion into gaseous state. The migration of the petroleum is considered as taking place in two phases, which are described in detail. One USSR reference (1952).

Institution : Academy of Sciences USSR, Petroleum Institute

Submitted : October 13, 1954

SOKOLOVA, M.N.; KAPELYUSHNIKOV, M.A.; ZAKS, S.L.

Possibilities of hydrocarbon recovery from clay rocks by solution in compressed gases. Dokl. AN SSSR 108 no.4:687-690 Je '56. (MIRA 9:9)

1.Chlen-korrespondent AN SSSR (for Kapelyushnikov).2.Institut nefti Akademii nauk SSSR.  
(Petroleum research)

KAPELYUSHNIKOV, M. A.

with S. L. Zaks and V. F. Burmistrova "Stimulation of Petroleum Flow by  
Injecting High Pressure Gas Into a Partially Depleted Formation"

Transactions of the Petroleum Institute, Acad. Sci. USSR, v. 11, Oil Field  
Industry, Moscow, Izd-vo AN SSSR, 1958. 346pp.

PHASE I BOOK EXPLOITATION 807/5494

Vasil'yev, Mikhail Vasil'yevich, and Sergey Zacharovich Gusebov  
Reportash in XXI veka; my sapisali rasskazy dvadtsati devyati  
sovetzkikh nauchnykh o nauke i tekhnike budushchego (Reports  
from the Twenty-First Century; Stories of Twenty-Nine Soviet  
Scientists on Science and Engineering of the Future) (Moscow)  
Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: O. I. Kiselev.

PURPOSE : This book is intended for the general reader.

COVERAGE : The book contains 27 articles (told reporters by  
Soviet scientists) dealing with probable future progress in  
physics, chemistry, electricity, metallurgy, engineering,  
mining, medicine, biology, agriculture, sociology, transportation,  
exploration of space, and photography. Attention is given to  
automation, automatic underground gasification of coal, use of  
new metals, modernization of oil fields, atomic electric stations,  
production of metal parts by the process of explosion, explosions  
Card-1/77

Reports From the Twenty-First (Cont.) 807/5494

in dam construction, cancer, internal longevity reserves,  
machine diagnoses of illnesses, surgery vs. treatment by ultra-  
sonic vibrations, mechanical heart substitutes, human body banks,  
"medical engineering" enriched fodder, "superfertilizers" arti-  
ficial snowfalls, agriculture vs. "agriculture" radiochemical  
power beam vs. wire, machines doing intellectual work, "EP auto-  
mobiles" (with "radio motors"), "artificial sun" (electromag-  
netic rays focused above a city which cause heated molecules  
to shine), future ocean ships, railway dreadnoughts, Moscow  
of the future, moving pavements, wheelless and driverless auto-  
mobiles, electric canyons, the industrialization of Siberia,  
use of underground heat, climate control, living on the moon,  
antimatter, and photon jet. Names of the interviewed scientists  
are given. There are no references.

TABLE OF CONTENTS:

INTRODUCTION

Mission Into the Future  
Card-2/77

5

Reports From the Twenty-First (Cont.) 807/5494

Leave to Dream (A. N. Kozmyanov, Academician)

10

THE FUNDAMENTAL AND MOST IMPORTANT THINGS

Transformation of Elements -- the Future of Metallurgy (I. P.  
Bardin, Academician, Vice-President, AS USSR)

25

Mines Are Breathing Their Last (I. S. Garkusha, Director of  
Vsesoyuznyy nauchno-issledovatskiy tsentr, "Pechenega" --  
All-Union Scientific Research Institute of Undersea and Gasifi-  
cation of Coal -- and N. A. Fedorov, Deputy Director for the  
Scientific Section)

34

Automatic Oil Field (S. I. Kirovov, Academician, and M. A.  
Kopelyanskii, Corresponding Member, AS USSR)

45

From the Sources (A. V. Winter, Academician)

51

Card-3/77

ACC NR: AP6025810

ethylene atmosphere hastens defoliation. This article reports the results of an investigation of compounds with antiauxinic characteristics, alkyl ethers of substituted phenols. According to Muir, et. al., these compounds derive their defoliant activity by their "two-point" reaction with plant protein in such a way that the carboxyl group of the regulator combines with the nitrogen-containing basic group of the substrate, while the free ortho-position of the aromatic nucleus of the substituted phenylacetic acid reacts with the thiol groups of the cysteine part of the protein as shown in Figure 1. If the ortho-position is occupied, then the SH-group can react with the para-position of the aromatic nucleus. Substances which do not satisfy at least one of the requirements of an active molecule (do not have carboxyl groups or free ortho-positions) act on the plant as an anti-auxin. The substances selected for study (esters of 2,4-dichlorophenol and 2,4,5-trichlorophenol have an unsubstituted ortho-position and no carboxyl groups and should possess antiauxin properties. The simplest of these ethers—2,4-dichloroanisol (methyl 2,4-dichlorophenyl ether) and 2,4,5-trichloroanisol (methyl 2,4,5-trichlorophenyl ether) can be represented as products of the decarboxylation of 2,4-D and 2,4,5-T as in Figure 2. The reaction of 2,4-D with thiol groups of cysteine

Card 2/3

ACC NR: AP6025810

is nonenzymatic and its mechanism is little known. Certain ethers of 2,4-D and 2,4,5-T stimulate flowering in pineapple plants. Compounds such as 3-chloropropyl 2,4-dichlorophenyl ether, patented as an anti-sprouting agent for potatoes, alkyl 2,4,5-trichlorophenyl and alkyl-2,4-dichlorophenyl ethers except for 2,4-D and 2,4,5-T were obtained by heating the corresponding alkyl halides with an alcoholic solution of potassium 2,4,5-trichlorophenoxide or potassium 2,4-D in ethylene glycol. The properties of the ethers are shown in tables 1-4. Results of the determination of herbicidal activity is shown in Table 5. Methyl, ethyl, n-propyl, isopropyl, n-butyl and isobutyl ethers of 2,4,5-trichlorophenol inhibit sprouting in potatoes, while 2,4-D had little or no effect on potatoes but varying results were obtained when it was tested on other plants.

SUB CODE: 06/ SUZH DATE: 07Jun65/ ORIG REF: 008/ OTH REF:  
[WA-50; CBE No. 11]

Card 3/3

BOKAREV, K.S.; KRAFT, V.A.; KAPELYUSHNIKOVA, L.M.

Synthesis of bis-alkyl xanthogen trisulfides. Izv. AN SSSR  
Ser. khim. no.12:2175-2182 D '64 (MIRA 18:1)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR.



KAPELYUSHNYI, D.I.; SEMENENKO, P.K.

Hydrostatic method of measuring feed molasses in molasses storage tanks. Sakh.prom. 32 no.10:48-50 0 '58. (MIRA 11:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharney promyshlennosti (for Kapelyushnyy). 2. Bobrovitskiy sakharney zavod (for Semenenko).  
(Molasses) (Gauging)

GRANOVSKIY, fnu; KAPEL'ZON, fnu

Cranes, Derricks, Etc.

Automatic gantry crane PKS-1 for construction  
of low buildings., *Biul. stroi. tekhn.*, 9,  
No. 3., 1952.

Inzh.; Giproorgipromzhilstroy Ministerstva  
Ugol'noy Promyshlennosti

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 ~~1952~~, Uncl.

LAZOVSKIY, I.M., kandidat tekhnicheskikh nauk; ZABRODSKIY, M.P., inzhener;  
KAPEL'ZON, I.G., inzhener.

Efficient layout of the preparation unit in a modern coke plant.  
Koks i khim. no.1:8-11 '56. (MLRA 9:5)

1. Vostochnyy uglekhimicheskiy institut (for Lazovskiy); 2. Nish-  
niy Tegil'skiy koksokhimicheskiy zavod (for Zabrodskiy); 3. Magnito-  
gorskiy metkombinat (for Kapel'son).  
(Coal preparation)

68-5-4/14

AUTHORS: Lipkin, D.S., Kapel'zon, I.G., and Miroshnichenko, A.K.

TITLE: From experience in replacing anchoring columns on coke ovens in the Magnitogorsk Metallurgical Combine. (Opyt zameny ankernykh kolonn na koksovykh Tsekhakh Magnitogorskogo metallurgicheskogo kombinata).

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No. 5, pp. 19 - 24 (U.S.S.R.).

ABSTRACT: Procedure adopted in the Magnitogorsk Combine for replacing buck staves and reinforcing frames from the coke side on two batteries is described in some detail and illustrated with diagrams. There are 7 figures.

ASSOCIATION: Teplotekhnika and Magnitogorsk Metallurgical Combine.

AVAILABLE:

Card 1/1

SOV/68-59-3-6/23

AUTHORS: ~~Kapel'zon, I.G.~~, Levin, E.D., Seppar, A.M. and Shibayev, F.P.

TITLE: An Improvement in the Quenching of Coke (Usovershenstvovaniye tusheniya koksa)

PERIODICAL: Koks i Khimiya, 1959, Nr 3, pp 27-34 (USSR)

ABSTRACT: An investigation of the coke quenching process has been studied on the Magnitogorsk Works, the results of which are reported in the paper. The distribution of moisture in the individual size fractions of coke - fig 1 and table 1. The distribution of coke in the quenching car - fig 2 and 3; the distribution of time between the individual operations of the coke quenching car - table 2; the dependence of the coke quenching time on the spraying capacity of the quencher ( $M^3$  of water/min) - table 3; the distribution of moisture in coke on the coke wharf - fig 5 and table 4; the design of the spraying installation used on the Magnitogorsk Works - fig 6. It is concluded that the necessary conditions of the stability of the moisture content of coke is the stability of the quality of the coal blend, heating conditions and coking time, as the above conditions

Card 1/2

An Improvement in the Quenching of Coke

SOV/68-59-3-6/23

determine the size distribution of coke and the amount of sponge it contains. There is a large variability in the distribution of coke on the cross sectional area of the coke quenching car of the same design on various batteries. The duration of the quenching period with technical water is 20-25% lower than that with effluent water. The spraying equipment used on the works is described. There are 6 figures and 4 tables.

ASSOCIATION: Magnitogorskiy Metallurgicheskiy Kombinat  
(Magnitogorsk Metallurgical Combine)

Card 2/2

B8129. KAPENGUT, I.

Vypolneniye kollektivnogo dogovora dolzhno stat' zakonom. Myas.  
industriya SSSR, 1949, No 6, s. 29-31

KAPENTAK, J.

"History of the Chocholowska Glade", P. 10. (TYTYSTA, No. 5, May 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (FEAL), 10, Vol. 4, No. 1, Jan. 1955, Uncl.



KAPERA, W.

New tools for cold welding aluminum and its alloys used in telecommunication.  
p. 370.

(TELE-RADIO. Vol. 2, no. 8, Aug. 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.

Distr: 4E2c

8631

Rutkowski K., Kapera W. The Technology of Melting Manganese Brass  
MAJJA

609.33.74 : 621.743.2

"Technologia przelepienia mosiadau manganowego MM38". Przegląd Odlewnictwa, No. 3, 1958, pp. 81-86, 4 tabs.

Manganese brass containing approximately 58 per cent Cu, 2 per cent Mn and 2 per cent Pb has remarkably good properties and is relatively low in price. A hindrance to its extensive use is its tendency to form slagging inclusions with consequent limited stabilization of mechanical properties of the castings. The investigations enabled determination of the individual and total effect of radiation by means of different slag covers and compressed nitrogen on the pick up value, the fluidity, the tendency to form slag defects, the compactness of castings and on the mechanical properties. Similar investigations were carried out to determine the effect on the above mentioned properties of fluxing additions of aluminum and its alloy alloys. As a result of the investigations, the analysis of the charge and the technology of melting was determined, showing an important increase in mechanical properties and in their stabilization, an increase in fluidity, and elimination of slagging defects.

KAPERA, W.; GORNY, Z.; FIJAL, A.

Determination of the proper pouring time for brass MO 60. p. 198.

Krakow. Instytut Odlewnictwa. PRACE. Warszawa, Poland.  
Vol. 7, no. 3/4, 1957, (published 1958).

Monthly list of East European Accessions Index, (EEAI), LC, Vol. 8, no. 6,  
June 1959.  
uncla.

TRUSZKOWSKI, W.; KAPERA, W.

On the proper measures of the latent ductility of metals. Archiv  
hutn 7 no.2:119-136 '62.

1. Department of Metallurgy, Institute of Basic Technical Problems,  
Polish Academy of Sciences, Krakow, and Foundry Institute, Krakow.

GORNY, Zbigniew, mgr., ins.; KAPERA, Wladyslawa, mgr., ins.

Chemical loss of the basic alloying elements when melting some copper alloys. Przegl odlew 12 no.3:73-78 Mr '62.

TRUSZKOWSKI, Wojciech; KAPERA, Wladyslawa

Indexes of latent plasticity of casting copper alloys.  
Prace inst odlew 12 no. 3: 202-218 '62 [publ. '64].

1. Department of Physical Metallurgy of Nonferrous Metals,  
School of Mining and Metallurgy, Krakow and Laboratory  
of Nonferrous Metals, Institute of Casting, Katowice.

KAPERINA, A. V.

USSR/Chemistry - Albumins  
Chemistry - Ketones

Feb 1947

"The Structure of the Albumin Micromolecule: 1, The Amount of Diketopiperazine in the Molecule of Some Albumins," N. I. Gavrilov, A. V. Kaperina, 8 pp

"Zhur Obshch Khim" Vol XVII, No 2

Elaboration of a new method of quantitative determination of diketopiperazines in native albumins, based on the electro-reduction of the diketopiperazines under conditions in which the polypeptide chains will not be subject to such a reduction.

PA 15T54

KAPERKO, F.F.

Roentgen diagnosis of pneumopericarditis. Vest. rent. 1 rad. 35  
no. 4:69/70 JL-Ag '60. (MIRA 14:2)

1. Iz Novo-Kakhovskoy gorodskoy bol'nitsy (glavnyy vrach A.K.  
Podsolkin).

(PERICARDITIS)



VOTCHAL, E.I.; MODAROV, V.K.; VIGONY, A.F.; LAPENKO, I.I.

Clinical and radiological parallels in the diagnosis of cardiac and pulmonary pathology by the use of radioactive sodium ( $\text{Na}^{24}$ ).  
Trudy ISIO 1960, 1964.

Study of ventricular hemodynamics by the method of selective quantitative radiokymography with the aid of radioactive krypton ( $\text{Kr}^{85}$ ).  
Izd. 1960 (MIRA 18:6)

E. Kafetska moditsinskoy radiologii (var. prof. V.K. Modarov) i  
I. Kafetska rentgenologii (var. prof. E.I. Votchal) "Doklady  
Instituta usoverasheniya razuma".

MODESTOV, V.K., prof.; VYSOKIY, F.F.; KAPERKO, F.F.

Diagnostic possibilities of the use of  $\text{Na}^{24}$  in heart and lung pathology. Med. rad. 9 no.2:24-28 D '64.

(MIRA 18:12)

1. Kafedra meditsinskoy radiologii (zav. - prof. V.K.Modestov)  
i 2-ya kafedra terapii (zav. - prof. B.E.Votchal) Sentral'-  
nogo instituta usovershenstvovaniya vrachev, MOSKVA.

RYABUKHIN, Yu.S.; KAPERKO, F.F.

Theoretical substantiation of the systolic discharge using the radioisotope method. Med. rad. 10 no.9:62-67 S '65.

(MIRA 18:10)

1. Laboratoriya dozimetrii i radiometrii izotopov pri vnutrennem obluchenii (zav. - kand. tekhn.nauk Yu.S.Ryabukhin), rentgeno-radiologicheskiy otdel Instituta meditsinskoy radiologii AMN SSSR i kafedra meditsinskoy radiologii (zav. - prof. V.K.Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

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flasks and in silica gel scintillation counting showed that the air-krypton mixture was packed in penicillin

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the projection of the chamber containing the recess in which  
placed

L 27828-65

ACCESSION NR: AP6007134

... Institut meditsinskoy radiologii AMN SSSR (Institute of Medical  
Radiology, AMN SSSR); kafedra meditsinskoy radiologii i rentgenologii Instituta  
... v Moskve (Moscow)

1964

ENCLOSURE



KAPERKO, F.F.

Determination of the heart volume and other indices of central  
hemodynamics of the heart using radioactive krypton ( $Kr^{85}$ ).  
Med. rad. 9 no.7:7-17 J1 '64. (MIRA 18:5)

1. Institut meditsinskoy radiologii AMN SSSR i kafedra medi-  
tsinskoy radiologii (zav. - prof. V.K.Modestov) TSentral'nogo  
instituta usovershenstvovaniya vrachey.

MITROFANOV, V.N., veterinarnyy vrach; KAPERNAUMOVA, N.P., veterinarnyy vrach.

Diagnosis of rabies. Veterinariia 34 no.6:66-68 Je '57. (MIRA 10:7)

1. Saratovskaya oblastnaya vetbaklaboratoriya.  
(Rabies)

SHUR, I.V., prof.; YAKOVLEV, L.A., prof.; KUKHARKOVA, L.L.; FREYDLIN, Ye.M.,  
kand. veterin. nauk; PEROVA, P.V., kand. veterin. nauk; IL'YASHENKO,  
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sotrudnik; FITINGOF, S.N.; starshiy nauchnyy sotrudnik; TRUDOLIUBOVA,  
G.B., mladshiy nauchnyy sotrudnik; RUSANOV, R.S., mladshiy nauchnyy  
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MITROFANOV, V.N., mladshiy nauchnyy sotrudnik; KAPERNAUMOVA, N.P.,  
mladshiy nauchnyy sotrudnik;

Sanitary evaluation of meat from sheep with brucellosis. Vete-  
rinaria 38 no.11:60-65 N '61 (MIRA 18:1)

1. Rukovoditel' laboratorii mikrobiologii i veterinarno-sanitarnoy  
ekspertizy Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy  
promyshlennosti (for Kukharkova).

KAPERNAUMOVA, M. P., TRUKOLYUBOVA, G. B., RUSANOV, R. S., KONUSPAYEVA, U. S.,  
MITROFANOV, V. N.,<sup>1</sup>, SHUR, I. V., YAKOVLEV, L. A.,<sup>2</sup>, KUKHARKOVA, L. L.,<sup>3</sup>,  
FREYDLIN, E. M., PEROVA, P. V., IL'YASHENKO, M. A.,<sup>4</sup>, KHASIL'NIKOV, R. I.,  
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the Laboratory of Microbiology and Veterinary Sanitary Inspection of VNIIMP (All-  
Union Scientific Research Institute of the Meat Industry), (3 Candidates of  
Veterinary Sciences), (4 Senior Scientific Workers), (5 Junior Scientific Workers.)

"Sanitary Appraisal of Mutton from Sheep Infected by Brucellosis."  
Veterinariya vol. 38, no. 11., November 1961., p. 60